MiLESEEY TR256E

MiLESEEY TR256E Thermal Imager User Manual

Brand: MiLESEEY | **Model:** TR256E

1. Introduction

The MiLESEEY TR256E is a high-resolution thermal imaging camera designed for accurate temperature measurement and analysis across various applications. It features an ultra-high resolution of 256x192, thermal sensitivity of <40mk, and a temperature resolution up to 0.1 degree Celsius. This manual provides essential information for setting up, operating, and maintaining your TR256E thermal imager.



Figure 1: MiLESEEY TR256E Thermal Imager

2. Setup

2.1 Unpacking and Initial Inspection

Carefully unpack all components from the box. Verify that all items listed in the package contents are present and undamaged. The package includes: TR256 Thermal Imager, USB Cable, 16G memory card (or 32G as per specifications), Wrist Strap, Cloth Case, and Manual.

2.2 Charging the Device

The TR256E comes with a built-in 5000mAh rechargeable lithium-ion battery. Before first use, fully charge the device using the provided USB cable. Connect the USB cable to the imager's USB-C port and a compatible power adapter (not included) or computer USB port. The charging indicator will show the charging status.

2.3 Inserting the SD Card

The device supports a 16GB built-in SD card for data storage, with optional memory expansion. Ensure the SD card is properly inserted into the designated slot before recording images or videos.

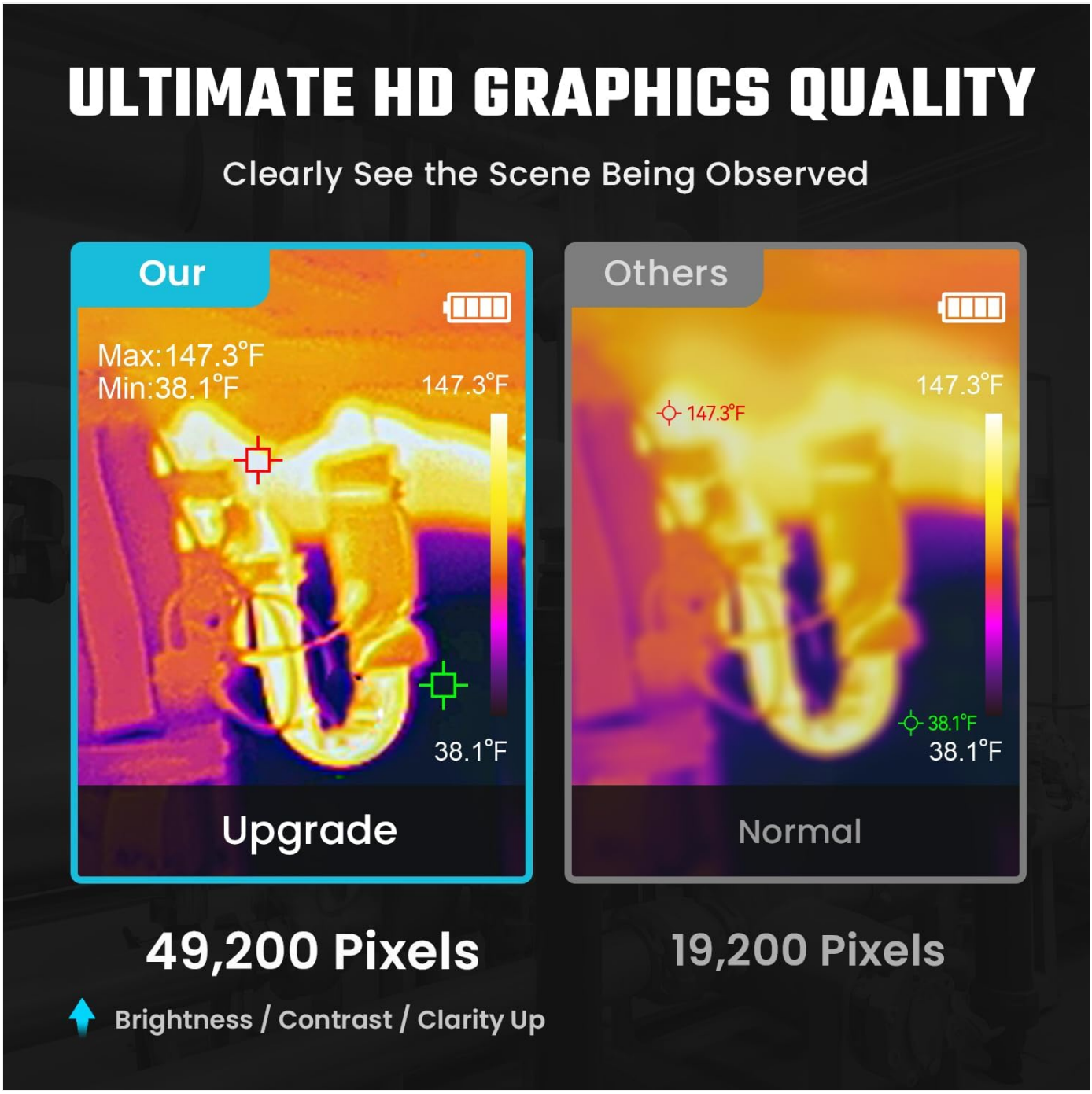


Figure 2: USB Connection and SD Card Slot

3. Operating Instructions

3.1 Powering On/Off

Press and hold the power button to turn the device on or off. The 2.8-inch LCD screen will display the thermal image once powered on.

3.2 Understanding the Display

The display shows real-time thermal images with temperature readings, including maximum, minimum, and average temperatures. The resolution is 256x192, providing clear thermal detection.



Figure 3: High-Resolution Thermal Imaging



Figure 4: Expansive Thermal Detection on 2.8-inch LCD

3.3 View Modes and Palettes

The TR256E offers 4 view modes, allowing you to select the most suitable display for your observation needs. These modes enhance the visibility of temperature differences. The device also supports various thermal palettes (e.g., Iron, Rainbow, Black Hot, White Hot) to visualize temperature distribution.

3.4 Image and Video Recording

Use the camera button to capture still images. The device supports video recording, allowing you to document thermal changes over time. All captured data is stored on the built-in 16GB SD card.

3.5 Connecting to PC for Analysis

The thermal imager can be connected to a PC via USB for real-time image analysis, temperature measurements, and data export. The accompanying software allows for detailed analysis, including 3D imaging and point/line/surface temperature measurements. This feature is crucial for professional analysis and reporting.



Figure 5: Thermal Imager in use for HVAC Inspection

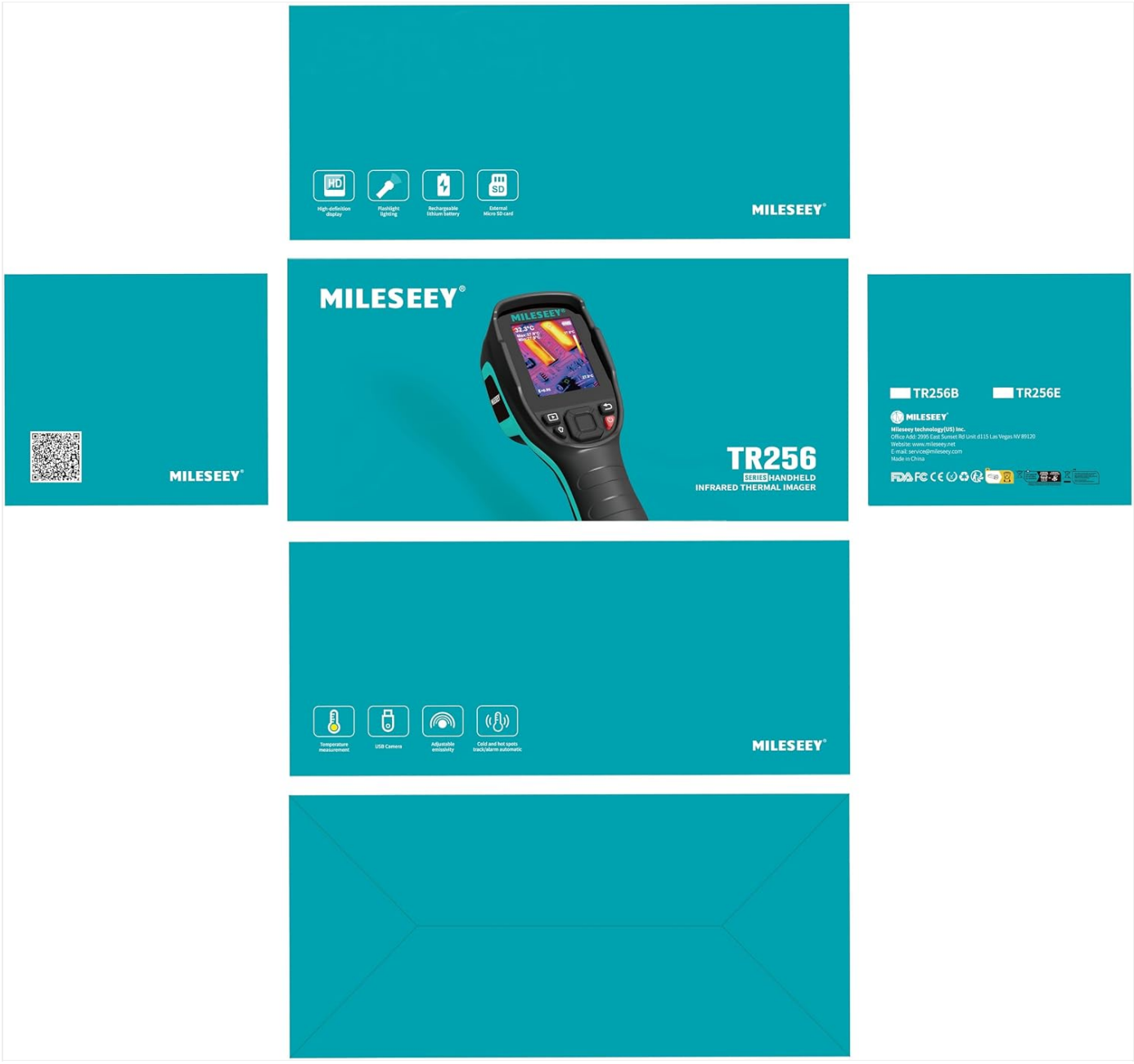


Figure 6: Enhanced Image Clarity with TR256E

3.6 Official Product Video

Your browser does not support the video tag.

Video 1: Overview of TR256E Thermal Imagers. This video demonstrates the features and applications of the MiLESEEY TR256E, including its high resolution, ease of use, and various inspection scenarios.

4. Maintenance

4.1 Battery Management

The built-in 5000mAh battery provides up to 12 hours of continuous operation. To maximize battery life, utilize the auto shut-off feature (5/10/20 min options). Adjust screen brightness (Low/Mid/High) as needed to conserve power.



Figure 7: Extended Battery Life

4.2 Cleaning and Storage

Use the provided lens cleaning cloth to gently clean the lens. Keep the device free from dust and debris. Store the thermal imager in its cloth case when not in use to protect it from physical damage.

4.3 Durability Features

The TR256E is designed with 2m drop resistance and an IP54 life waterproof rating, making it suitable for use in harsh environments. However, avoid intentional drops or prolonged exposure to water.

4.4 LED Work Light

The built-in LED work light assists in darker environments, ensuring visibility of the inspection area.

5. Troubleshooting

This section provides general guidance for common issues. For more complex problems, please refer to the support

information.

- **Device not powering on:** Ensure the battery is sufficiently charged. Connect the device to a power source and try again.
- **Image unclear or distorted:** Check if the lens is clean. Adjust the focus if available, or ensure you are within the optimal measurement distance.
- **Temperature readings seem inaccurate:** Verify the emissivity setting is correct for the material being measured. Ensure the device has stabilized to the ambient temperature.
- **Cannot connect to PC:** Ensure the USB cable is securely connected. Try a different USB port or restart both the device and the computer. Install necessary drivers if prompted.

6. Specifications

Feature	Specification
Model Number	TR256E
IR Resolution	256 x 192
Thermal Sensitivity	<40mk
Temperature Resolution	0.1°C
Temperature Range	-20°C to +350°C (-4°F to +662°F)
Accuracy	±2%
Frame Rate	50Hz (product description) / 30 frames per second (specifications)
Display	2.8-inch LCD
Battery Type	Lithium Ion
Battery Capacity	5000mAh
Battery Life	Up to 12 hours
Storage	16GB Built-in SD Card (expandable)
Connectivity	USB
Drop Resistance	2m
IP Rating	IP54
Item Weight	780 g
Dimensions (L x W x H)	57 x 28 x 47 cm

7. Warranty and Support

The MiLESEEY TR256E Thermal Imager comes with a **1-year warranty** from the date of purchase. MiLESEEY also provides **lifetime technical support** for this product. For any inquiries, technical assistance, or warranty claims, please contact MiLESEEY customer service through their official channels or the retailer where the product was purchased.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question